Missouri Department of Health and Senior Services
Bureau of Ambulatory Care
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Notice: To new radiation machine facilities, or existing facilities adding new equipment after 1/1/2014

The following information is provided to assist in outlining a facility's regulatory responsibility to ensure radiation safety. Missouri Radiation Control Program rules and policies require that the facility owner of radiation-producing machines demonstrate compliance with both radiation shielding and safe machine performance requirements, primarily through consultation with approved Qualified Experts in radiation safety. In most cases, if a new x-ray room is being added, **both** a written evaluation/shielding plan **and** an **onsite survey** by a Qualified Expert is required. After an initial survey, periodic surveys must be arranged every 1, 2, 4, or 6 years, depending on the Class of the facility and its radiation equipment. See below for requirements. If you have additional questions please contact MRCP@health.mo.gov or by phone at 573-751-6083, or refer to our website at: http://health.mo.gov/safety/radprotection/

	New radiation facility	**New x-ray room(s)** (expansion → new radiation machine(s))	**Repairs/replacement equipment** in existing fixed location radiation/x-ray room.
Shielding plan or written evaluation by approved Qualified Expert	**YES** --keep on file and provide to MRCP prior to routine usage.	**YES** --keep on file and provide to MRCP prior to routine usage.	NOT REQUIRED unless significant changes in room usage (going from radiographic to CT, etc.)
Initial onsite radiation safety survey by Qualified Expert if:			
→Equipment is: Mammography, Fluoroscopic, Radiation therapy, CT (**includes CBCT**)	**YES, PRIOR** to routine clinical usage	**YES, PRIOR** to routine clinical usage	NOT MANDATORY, HOWEVER, it is ***recommended*** that the QE be contacted by the facility to determine if certain safety tests would be advisable. *Note MQSA requires QE evaluation for any "major component" change or repair of mammography equipment.
→Equipment is NOT one of the above (routine radiographic, dental [intra/oral or panoramic], non-medical, podiatric.	**YES**, but may be done within ninety (90) days of installation with written statement from QE (including planned survey date.)	**YES**, but may be done within ninety (90) days of installation with written statement from QE (including planned survey date.) **Medicare Certified portable x-ray suppliers→ new machines must be surveyed *prior* to use.	NOT MANDATORY, HOWEVER, it is ***recommended*** that the QE be contacted by the facility to determine if certain safety tests would be advisable.

Applicable rules

19 CSR 20-10.050 (1) The user shall provide for radiation surveys and monitoring sufficient to assure compliance….The ***radiation survey and monitoring shall be performed by, or under the direction of, a qualified expert***.

19 CSR 20-10.050 (2) Until an actual radiation survey can be performed, a ***written statement made by a qualified expert*** based on his/her analysis of the situation shall be acceptable as evidence of the absence of radiation hazard in a given area.

19 CSR 20-10.190 (1) The ***requirements for room shielding shall conform to*** the requirements defined in…[***National Council on Radiation Protection {NCRP}, Reports 145, 147, 151***].

19 CSR 20-10.030 (1) … ***Any newly acquired source*** shall be registered with the Department of Health within thirty (30) days after receipt. The registration shall be submitted on a form available from the department and shall describe each source, its location and use….The registration also shall give the name and address of the user(s) and the ***name and address of the qualified expert*** [used for the required surveys and monitoring].